

IN THE CLAIMS:

Please replace claims 1-27 of the international application with the below claims:

1. A device for detecting humans comprising:  
  
a radio frequency transmitter for generating a signal;  
  
a radio frequency receiver spaced relative to the radio frequency transmitter for receiving a portion of the signal;  
  
a path there between sufficient for humans to pass between the transmitter and receiver; and  
  
a receiver that includes a detector responsive to a change in the received portion of the signal for determining the passing by of a human.
2. A device as claimed in Claim 1 wherein the radio frequency transmitter and receiver are each housed in a pedestal.
3. A device as claimed in Claim 2 wherein the path comprises a lane defined by spacing between the pedestals.
4. A device as claimed in Claim 1 wherein the radio frequency transmitter includes a first antenna for generating a vertically polarized radio frequency signal.
5. A device as claimed in Claim 1 wherein the first antenna comprises a dipole antenna.

6. A device as claimed in Claim 1 wherein the first antenna comprises a folded dipole antenna.
7. A device as claimed in Claim 1 further comprising a second antenna for generating a horizontally polarized signal.
8. A device as claimed in Claim 7 wherein the second antenna comprises a dipole antenna.
9. A device as claimed in Claim 7 wherein the second antenna comprises a folded dipole antenna.
10. A device as claimed in Claim 1 wherein the radio frequency transmitter includes a first and a third antenna.
11. A device as claimed in Claim 10 wherein the first and third antennas comprise a dipole antenna.
12. A device as claimed in Claim 10 wherein the first and third antennas comprise a folded dipole antenna.
13. A device as claimed in Claim 11 further comprising a second antenna for generating a horizontally polarized signal.

14. A device as claimed in Claim 10 wherein first and third antennas are coupled to a single transmitter.

15. A device as claimed in Claim 10 wherein first and third antennas are coupled to separate transmitters.

16. A device as claimed in Claim 1 further comprising a metallic reflector is positioned behind each antenna relative to the path.

17. A device as claimed in claim 1 wherein the detector responds to a change in the amplitude of the received signal.

18. A device as claimed in claim 1 wherein both the phase and amplitude of the received signal are used in making a determination.

19. A building-access security system comprising a plurality of devices as claimed in claim 1.

20. A people-counting system comprising a plurality of devices as claimed in claim 1.

21. A building-access security system comprising a video camera system and a plurality of the devices as claimed in claim 1.
22. A building-access security system comprising a plurality of devices as claimed in claim 1, each further comprising an IR detection beam system.
23. A building-access security system comprising a plurality of the devices as claimed in claim 1, each device further comprising distance sensors.
24. A building-access security system as claimed in claim 22 further comprising a video camera system.
25. A building-access security system as claimed in claim 24 wherein the video camera system includes stereo video.
26. A device as claimed in claim 1 wherein the device includes a capacitance sensor.
27. A device as claimed in claim 1 wherein the transmitter and receiver are operable to provide a spread spectrum signal.